

KENTUCKY TRANSPORTATION CABINET

Kentucky TRNS*PORT Information Series

SiteManager Materials Module

SUPERPAVE Mix Design Window – Superpave (MIXPACK) QCQA Spreadsheet

General Description

This is one of the eight spreadsheet disciplines that KYTC will use for QC/QA program tracking. These spreadsheets allow data to be received by KYTC from Producers/Suppliers outside the department, and automatically loaded (with error checking) into the SiteManager system by the Spreadsheet Applet application developed by KYTC ITI. The eight disciplines include:

| <u>Short Name</u> | <u>Description</u> |
|-------------------|--|
| MIXPACK | Asphalt Mix Design |
| AMAW | Asphalt Mixtures Acceptance Workbook QC/QA |
| CONCMIX | Concrete Mix Design |
| CONCPVMT | Concrete Pavement QC/QA |
| CONCSTRT | Structural Concrete QC/QA |
| AGG | Aggregate QC/QA |
| DENSITY | Moisture-Density QC/QA |
| STRIPING | Striping QC/QA |

The user initiates the Applet and directs the application as to the location of the spreadsheet, and the Applet then attempts to successfully load the spreadsheet. If any errors are encountered, the load is aborted and the specific errors returned to the user. Once successfully loaded into SiteManager, the Applet archives a copy of the spreadsheet for audit trail purposes (as described in **TBD**).

NOTE: The RE's should not procedurally do any loading of MIXPACK spreadsheets; these should actually be done by the DME's or by Central Office personnel.)

Spreadsheet Applet Executable Location

TBD

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Spreadsheet Location

TBD

Procedure

The MIXPACK Asphalt Mix Design Spreadsheet will populate two functional areas of the SiteManager application via the Spreadsheet Applet application:

- The Superpave Mix Design window records
- The Sample Information window records

This document describes the procedures for entering data into the spreadsheet that will be stored into the Superpave Mix Design related records in SiteManager. (The Sample Information records loaded by this spreadsheet are described as part of the “Superpave (MIXPACK) Sample Information Field Handout for Applet” procedure.) All records loaded by this spreadsheet will be protected (i.e., the Mix Design will be Approved and the Sample will be Authorized).

NOTE: Any changes necessary to the data will need to be done by using the “replacement” function available with the Spreadsheet Applet. This capability will be available for this discipline.

This spreadsheet will load mix design approval related data into the Superpave related table records.

Refer to the MIXPACK End-User Procedure for the specific procedures required by the end-user to use this spreadsheet.

The following tables describe the fields loaded on the database, which are visible when viewing on the window, and the source, location, and procedures for each field from the KYTC perspective.

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DESCRIPTION FOLDER TAB (t_superpave)

| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|----------------------------|--|-----------------------|--|--|
| Mix ID (mix_id) | <p>Mix Design ID for the Superpave mix design established on the Asphalt Mix (MIXPACK) Spreadsheet.</p> <p>This field is required and must be unique (even if the Contractor is using the same Mix Design on multiple contracts).</p> <p>This field is 15 characters long.</p> | Free-form | KYTC Spreadsheet Approver | <p>Mix Design ID established on the Spreadsheet.</p> <p>This field is required and must be unique.</p> <p>KYTC Central Office Mix Designs will use DDYYSSSS: DD is the District (Central Office is 00) YY is the Year SSSS is the Mix ID.</p> <p>< Design Data.MIX ID NUM.></p> |
| Design Type (dsn_t) | Identifies the type of mix design. This is automatically populated as Superpave. | Code Table | Auto-populated by Spreadsheet | <p>This is a data check field; Design Type must exist.</p> <p>This field will be automatically populated on the Spreadsheet as SUP (Superpave).</p> |
| Material Code (matl_cd) | The transportation agency-defined material code for the SUPERPAVE mix that is submitted with the Spreadsheet. | Free-form | End-User (Auto-populated by the spreadsheet based on the selection of TYPE OF MIX) | <p>This field should be populated with the appropriate Mix Design Approval Material Code.</p> <p>This is a data check field; Material Code must exist and must be actively produced by the P/S.</p> <p>This field will be automatically populated on the Spreadsheet by the Contractor by selecting the TYPE OF MIX).</p> <p>< Design Data.MIX MAT. CODE></p> |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|--|--|-----------------------|--|--|
| Producer Supplier Code (prodr_supp_cd) | The transportation agency-defined Producer/Supplier (P/S) Code for a source/location of the Asphalt Plant that is going to produce the Mix Design. | Free-form | End-User | This is a data check field; P/S must exist and must be active. < Design Data.CNTR. PROD. #> |
| Designer Name (dsnr_nm) | The name of the designer responsible for the SUPERPAVE mix. This is the Contractor's Technician that submitted the sample. | Free-form | End-User | The contractor person who is submitting the mix design for approval. User must be an active Sampler (i.e., Material User). The Approver must have active "SUPERPAVE MIX DESIGN TECHNOLOGIST" Sampler qualification (and therefore have a SM User ID) for a Material Category of "ASPHALT-MIX DESIGN". <Design Data. SUBMITTED BY> |
| AC Type (asph_cem_t) | Identifies the type of asphalt cement. | Code Table | End-User (Auto-populated by the spreadsheet based on the selection of TYPE OF MIX) | This is a data check field; AC Type must exist. This field will be automatically populated on the Spreadsheet by the Contractor by selecting the TYPE OF MIX). <Design Data.BINDER GRADE> |
| Mix Type (mix_dsn_txt_t) | This is the type of mix designed (e.g., A, D, etc.). | Code Table | End-User | This is a data check field; Type of Mix must exist. <Design Data.TYPE OF MIX> (Actually <Chart Data."M48"> |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|------------------------------------|--|-----------------------|---|---|
| Effective Date (effdt) | Effective date for the SUPERPAVE mix. | Date | KYTC Spreadsheet Approver | This will be the date the mix is released (i.e., approved) for use. <Design Data.DATE REL.> |
| Termination Date (term_dt) | Date the SUPERPAVE mix is no longer available for use. KYTC will not use this field. | N/A | N/A | Applet will not use this field for this discipline. |
| Approved Date (apprd_dt) | Authorization date of the SUPERPAVE mix. | Date | KYTC Spreadsheet Approver (Auto-populated by Spreadsheet based on entered Release Date) | This will be the date the mix is released (i.e., approved) for use. <Design Data.DATE REL.> |
| Approved By User ID (apprd_by_uid) | The person who approves the SUPERPAVE mix. | Free-form | KYTC Spreadsheet Approver | This is the KYTC person approving the Mix Design. User must be an active Security User. The Approver must have active "SUPERPAVE MIX DESIGN TECHNOLOGIST" Sampler qualification (and therefore have a SM User ID) for a Material Category of "ASPHALT-MIX DESIGN". <Design Data.APPROVED BY> |

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PROPERTIES FOLDER TAB (t_superpave)

| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|------------------------------------|--|-----------------------|----------------|--|
| N (Initial) (init_n_dnsty_m) | The initial compaction gyrations of the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Gyration Data.Nini> |
| N (Max) (max_n_dnsty_m) | The maximum compaction gyrations of the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Gyration Data.Nmax> |
| N (Design) (dsn_n_dnsty_m) | The design compaction gyrations of the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Gyration Data.Ndes> |
| % Gmm @ N (Init) (init_n_gmm_p) | The percent of solids by volume @ initial compaction gyrations of the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data. Design Property.% Gmm @ Ninitial> |
| % Gmm @ N (Max) (max_n_gmm_p) | The percent of solids by volume @ maximum compaction gyrations of the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data. Design Property.% Gmm @ Nmax> |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|--|---|-----------------------|--|---|
| Equiv Single Axle Loads (esals_nbr) | The ESAL Class. Number of load axle equivalent weight repetitions that pavement can endure before damage occurs. | Free-form | End-User (Auto-populated by the spreadsheet based on the selection of TYPE OF MIX) | This field will be automatically populated on the Spreadsheet by the Contractor by selecting the TYPE OF MIX. The spreadsheet will assign "0" (i.e., zero) to the "N/A" or " " (i.e., blank) Classes. <Design Data. ESAL CLASS> |
| Optimum AC % by Tot Weight (opt_ac_pct_tot_wt) | The asphalt content that will be used to produce the specified bituminous mix in the field. This value will include virgin asphalt cement and any provided by the RAP, if applicable. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data. Design Property.% AC> |
| Dust Proportion (dust_proprt_n_p) | The percent of material passing 0.075-mm sieve to the effective asphalt binder content. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Design Property.D/A Ratio> |
| VMA % (vma_p) | The ratio of the percentage of voids in the mineral aggregate for the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Design Property.% VMA> |
| VFA % (vfa_p) | The percentage of VMA filled by the effective asphalt for the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Design Property.% VFA> |
| Lottman TSR (lotmn_tsr_m) | The tensile strength ratio for the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Design Property.% TSR without additive> |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|---|---|-----------------------|---|---|
| Sand Equivalent (sand_equiv_tst) | The ratio of material passing the No. 30 sieve and retained on the No. 200 sieve to material passing the No. 8 sieve and retained on the No. 200 sieve. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Design Property.Clay Content (SE) (%)> |
| Maximum Specific Gravity (max_spc_gr) | The maximum specific gravity for the specified SUPERPAVE mix. | Free-form | End-User | Calculated based on data entered by contractor. <Design Data.Design Property.Maximum Specific Gravity> |
| Bulk Specific Gravity (bulk_spc_gr_m) | Bulk specific gravity of the SUPERPAVE mix design @ optimum AC %. | Free-form | End-User | Calculated based on data entered by contractor. (Unit Weight (lb/ft3) divided by 62.4.) <Design Data.Design Property.Unit Weight (lb/ft3)> |
| Mixing Temperature (mix_temp) | The mixing temperature for the specified SUPERPAVE mix. | Free-form | End-User (Auto-populated by the spreadsheet based on the selection of TYPE OF MIX) | This field will be automatically populated on the Spreadsheet by the Contractor by selecting the TYPE OF MIX. This will be assigned by the spreadsheet as the first three characters (to the left of the "/") in the MIX/COMP TEMP field. <Design Data.MIX/COMP TEMP> |
| Mixing Temperature Units Type (mix_temp_unt) | The unit of measure for the associated mixing temperature value, degrees Fahrenheit. | Code Table | Auto-populated by Spreadsheet | This is a data check field; Must exist in TEMP code table. |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|--|---|-----------------------|--|--|
| Compaction Temp (cmpct_temp) | The design compaction temperature for the specified SUPERPAVE mix. | Code Table | End-User (Auto-populated by the spreadsheet based on the selection of TYPE OF MIX) | This field will be automatically populated on the Spreadsheet by the Contractor by selecting the TYPE OF MIX. This will be assigned by the spreadsheet as the first three characters (to the right of the "/") in the MIX/COMP TEMP field. <Design Data.MIX/COMP TEMP> |
| Compaction Temperature Units Type (cmpct_temp_unt) | The unit of measure for the associated design compaction temperature value, degrees Fahrenheit. | Code Table | Auto-populated by Spreadsheet | This is a data check field; Must exist in TEMP code table. |
| High Air Temperature (high_air_temp) | Average high air temperature..KYTC will not use this field. | N/A | N/A | Applet will not use this field for this discipline. |
| High Air Temperature Units Type (high_air_temp_unt) | Unit of measure for high air temperature. KYTC will not use this field. | N/A | N/A | Applet will not use this field for this discipline. |
| Remarks (rmrks_id) | Remarks. KYTC will not use this field. | N/A | N/A | Applet will not use this field for this discipline. |
| Last-Modified User ID (last_modfd_uid) | Last user to modify the record | Free-form | KYTC Spreadsheet Approver | This is the KYTC person approving the Mix Design. User must be an active Security User. <Design Data.APPROVED BY> |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|---------------------------------------|--|-----------------------|--------------------------|--|
| Last-Modified Date (last_modfd_dt) | Date of the last modification made to the record. | Date | Auto-populated by Applet | System Date the sample was successfully imported into SiteManager. |
| Air Voids Percentage (air_voids_p) | N/A (Previously the percentage of air voids in the mix.) KYTC will not use this field. | N/A | N/A | Applet will not use this field for this discipline. |

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MATERIALS FOLDER TAB (t_bit_conc_mixblnd)

There will be two different sources of the mix materials components: Multiple Aggregates and a single Binder. Binder source locations are listed first (when source is different) and the Aggregate source.

| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|----------------------------|---|-----------------------|-------------------------------|---|
| Mix ID (mix_id) | Mix Design ID for the Superpave mix design established on the Asphalt Mix (MIXPACK) Spreadsheet. This field is required and must be unique (even if the Contractor is using the same Mix Design on multiple contracts). This field is 15 characters long. | Free-form | KYTC Spreadsheet Approver | Mix Design ID established on the Spreadsheet. This field is required and must be unique. KYTC Central Office Mix Designs will use DDYYSSSS: DD is the District (Central Office is 00) YY is the Year SSSS is the Mix ID. < Design Data.MIX ID NUM.> |
| Design Type (dsn_t) | Identifies the type of mix design. This is automatically populated as Superpave. | Code Table | Auto-populated by Spreadsheet | This is a data check field; Design Type must exist. This field will be automatically populated on the Spreadsheet as SUP (Superpave). |
| Material Code (matl_cd) | The transportation agency-defined material code for the SUPERPAVE mix that is submitted with the Spreadsheet. | Free-form | End-User | This is a data check field; Material Code must exist and must be actively produced by the P/S. <Design Data. BINDER CODE> <Design Data. "Aggregate".MAT. CODE> |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|--|---|-----------------------|--|---|
| P/S Code (prodr_supp_cd) | The transportation agency-defined Producer/Supplier (P/S) Code for a source/location of the Asphalt Plant that is going to produce the Mix Design. | Free-form | End-User | This is a data check field; must exist and must be active P/S. <Design Data. BIND.PROD.#> <Design Data. "Aggregate".AGG. PROD. NO.> |
| Brand Name (brnd_nm) | This is a freeform text field where the brand name of the component material may be entered. KYTC will not use this field. | N/A | N/A | Applet will not use this field for this discipline. |
| Blend Percent (blnd_p) | The percentage of the component material contained within the SUPERPAVE mix. | Free-form | End-User | No edit. <<Design Data.Design Property.% AC> <Design Data. "Aggregate".%> |
| Specific Gravity (Bulk) (bulk_spc_gr_m) | The bulk specific gravity of the component material contained within the SUPERPAVE mix. This is the number that is used for the Mix Design whether it is the data provided by KYTC testing or the Contractor. | Free-form | End-User (and possible override by KYTC Spreadsheet Approver) | This will initially be entered by the end-user. If the state determines this value must be verified, the same test will be run by the state. If the contractor's value is within the tolerance levels set by the state of the state run test results, the contractor's value will remain. Otherwise the KYTC Spreadsheet Approver will replace the contractor's value with the states. (NOTE: For each verification test run by the state, the "Results Used" indicator will be set by the KYTC Spreadsheet Approver as applicable.) <Design Data.G _b > <Design Data. "Aggregate".G _{sb} > |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|--|--|-----------------------|---------------------------|---|
| Gsb (Bulk) Source (apmnt_spc_gr_m) | This field indicates whether or not the testing values used in the Design come from the state or the Contractor. Enter an S if the Bulk Specific Gravity data used is provided by the State. Enter a C if the Bulk Specific Gravity data used is provided by the Contractor. This will need to be indicated on the Spreadsheet. | Code Table | KYTC Spreadsheet Approver | For each verification test run by the state, the "Results Used" indicator will be set by the KYTC Spreadsheet Approver as applicable. BINDER: N/A <Design Data.MCL Aggregate Verification Information.S/C> |
| Sample ID (smp_l_id) | This is the SiteManager Sample ID for samples that are tested and recorded in SiteManager. Example: Aggregate tests. | Free-form | KYTC Spreadsheet Approver | For each verification test run by the state, the Sample ID used for the test will be entered by the KYTC Spreadsheet Approver. <Design Data.MCL Consensus (& Additional) Verification Information.Sitemanager ID #> (Always last row of six) <Design Data. MCL Aggregate Verification Information. SiteManager Agg. ID #> |
| Last-Modified User ID (last_modfd_u_id) | Last user to modify the record. | Free-form | KYTC Spreadsheet Approver | This is the KYTC person approving the Mix Design. User must be an active Security User. <Design Data.APPROVED BY> |
| Last-Modified Date (last_modfd_d_t) | Date of the last modification made to the record. | Date | Auto-populated by Applet | System Date the sample was successfully imported into SiteManager. |

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GRADATION FOLDER TAB (t_mix_dsn_grdn) - **NOT USED BY THE APPLLET**

Because the gradations for each possible Superpave Mix Design “Material Code” can have a different set of sieves (each with their own unique set of Sieve Size Serial Numbers that could be a different number for the same actual sieve size), there was no way to achieve the mapping of this data from the spreadsheet to SiteManager. (NOTE: the spreadsheet has ALL available sieve sizes for all the material codes, and only expects the user to enter those that are applicable for the one being reported on.) This data will need to be stored on the Sample associated with the Mix Design itself.

| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|-----------------------------------|---|-----------------------|----------------|---|
| Mix ID (mix_id) | Mix Design ID for the Superpave mix design established on the Asphalt Mix (MIXPACK) Spreadsheet. This field is required and must be unique (even if the Contractor is using the same Mix Design on multiple contracts). This field is 15 characters long. | N/A | N/A | Applet will not use this field for this discipline. |
| Design Type (dsn_t) | Identifies the type of mix design. This is automatically populated as Superpave. | N/A | N/A | Applet will not use this field for this discipline. |
| Material Code (matl_cd) | The transportation agency-defined material code for the SUPERPAVE mix that is submitted with the Spreadsheet. | N/A | N/A | Applet will not use this field for this discipline. |
| Effective Date (matl_grdn_ef fdt) | The date the gradation specification becomes effective. | N/A | N/A | Applet will not use this field for this discipline. |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|---|--|-----------------------|----------------|--|
| Status (N/A) | Identifies the current status of this sieve size record (e.g., active or inactive). | N/A | N/A | Applet will not use this field. This is not a database field; it is assigned programmatically by the SiteManager application. |
| Sieve Size (N/A) | AASHTO and ASTM standard sieve sizes (e.g., 1/2, No. 4, etc.). | N/A | N/A | Applet will not use this field. This is not a database field; it is assigned programmatically by the SiteManager application. |
| Material Gradation Sequence Number (matl_grdn_sn) | System generated key to hold the sieves in their proper order, since the sieve size field is character and will not sort in correct order. | N/A | N/A | Applet will not use this field for this discipline. |
| Sieve Value (sv_val) | The percentage of bituminous mix passing through the sieve screen. | N/A | N/A | Applet will not use this field for this discipline. |
| Minimum Range (N/A) | The beginning value for the gradation specification limit. | N/A | N/A | Applet will not use this field. This is not a database field; it is assigned programmatically by the SiteManager application. |
| Maximum Range (N/A) | The ending value for the gradation specification limit. | N/A | N/A | Applet will not use this field. This is not a database field; it is assigned programmatically by the SiteManager application. |
| Min Production Tolerance (min_prod_tol rnc) | The minimum production tolerance value specification. This field is required when the Sieve Value field is populated. | N/A | N/A | Applet will not use this field for this discipline. |

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| Field Name | Description | Spreadsheet Data Type | Source of Data | KYTC Spreadsheet Population Decision |
|--|---|-----------------------|----------------|---|
| Max Production Tolerance max_prod_tolrnc) | The maximum production tolerance value specification. This field is required when the Sieve Value field is populated. | N/A | N/A | Applet will not use this field for this discipline. |
| Last-Modified User ID (last_modfd_uid) | Last user to modify the record. | N/A | N/A | Applet will not use this field for this discipline. |
| Last-Modified Date (last_modfd_dt) | Date of the last modification made to the record. | N/A | N/A | Applet will not use this field for this discipline. |